

From: [Dawn Ioven](#)
To: [Kelley Chase](#)
Cc: [John Gilbert](#); [Richard Fetzer](#)
Subject: Re: Fw: Rad Triggers
Date: 04/24/2012 02:03 PM
Attachments: [Rad Triggers.xlsx](#)

Hi, Kelley. I reviewed the attachment. The primary MCLs listed for the radionuclides are correct. The risk-based triggers are also accurate, with one exception. For Ra226, the risk-based trigger (at an excess cancer risk of 1E-04) is 0.0914 pCi/L. This is a situation similar to arsenic, where the screening level (4.5 ug/L) is lower than the MCL (10 ug/L). The difference is, the trigger for Ra226 (0.0914 pCi/L) is almost certainly lower than naturally-occurring background in this area of Pennsylvania. Whether we use the risk-based screening level for Ra226 (as we do for arsenic) or the MCL as the trigger is a matter of preference. In this case, using the MCL would be justifiable and more straight-forward than the screening level, but it's your call. Thanks.

Dawn

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▼ [Kelley Chase---04/24/2012 10:42:45 AM---Hi Dawn - I am forwarding a table of the Rad MCLs and Trigger Levels. Please take a look to confir](#)

From: Kelley Chase/R3/USEPA/US
To: Dawn Ioven/R3/USEPA/US@EPA
Cc: Richard Fetzer/R3/USEPA/US@EPA, John Gilbert/CI/USEPA/US@EPA
Date: 04/24/2012 10:42 AM
Subject: Fw: Rad Triggers

Hi Dawn -

I am forwarding a table of the Rad MCLs and Trigger Levels. Please take a look to confirm that all the TL values are correct. Also - please confirm whether the TL for Ra226 and Ra228 is to be 5 pCi/L individually or to be a combined 5 pCi/L as with the MCL.

Nearly all the Rad data has been uploaded to our Scribe database. We are hoping that by the end of the day - all the Rad data for all 5 weeks will be in and posted to FTP and shortly afterwards uploaded to Scibe. Once it is all in Scribe we can run reports to make the review of the data easier. I believe we will have help in reviewing the Rad data from a health physicist from EPA ERT.

Thanks - Kelley

----- Forwarded by Kelley Chase/R3/USEPA/US on 04/24/2012 10:33 AM -----

From: **Ex. 4 - CBI**
To: Kelley Chase/R3/USEPA/US@EPA
Date: 04/18/2012 04:03 PM
Subject: Rad Triggers

Kelley,

Attached is the Rad Trigger levels table including what we have with EPA & DEP Primary and Secondary MCLs. Analyte names have been modified to include a mix of the analyte and the analysis in the analyte name so that data isn't over written in Scribe. I'm just not sure if there is a different in Dawn's number for Ra226 & Ra228 & U235 dependent on which analysis these analytes come from. Also I wasn't sure if Dawn's number for Ra226 & Ra228 was supposed to be 5 pCi/L individually or combined like they are in the MCLs.

Ex. 4 - CBI

